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We Claim:

- 5 *Sub 1*
1. A TP2 nucleic acid molecule encoding a polypeptide selected from the group consisting of:
- (a) the nucleic acid molecule of SEQ ID NO:13;
 - (b) the nucleic acid molecule that is nucleotides 1920-2820 of SEQ ID NO:13;
 - (c) the nucleic acid molecule of SEQ ID NO:19
 - 10 (d) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:14, or a biologically active fragment thereof;
 - (e) a nucleic acid molecule encoding the polypeptide of SEQ ID NO:20, or a biologically active
 - 15 fragment thereof;
 - (f) a nucleic acid molecule that encodes a polypeptide that is at least 90 percent identical to the polypeptide of SEQ ID NO:14;
 - (g) a nucleic acid molecule that encodes a
 - 20 polypeptide that is at least 90 percent identical to the polypeptide of SEQ ID NO:20;
 - (h) a nucleic acid molecule that hybridizes under stringent conditions to any of (a)-(g) above; and
 - (i) a nucleic acid molecule that is the
 - 25 complement of any of (a)-(g) above.

2. The nucleic acid molecule that is SEQ ID NO:13 or SEQ ID NO:19.

30 3. The nucleic acid molecule that is nucleotides 1920-2820 of SEQ ID NO:13.

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35 4. A nucleic acid molecule encoding the polypeptide of SEQ ID NO:14 of SEQ ID NO:20.

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5. A nucleic acid molecule selected from the group consisting of: nucleotides 1-1689 of SEQ ID NO:13, nucleotides 1-1920 of SEQ ID NO:13, nucleotides 1920-2820 of SEQ ID NO:13, nucleotides 2089-2820 of SEQ ID NO:13, and nucleotides 2089-2859 of SEQ ID NO:13.

6. A nucleic acid molecule encoding amino acids 640-940 of the polypeptide of SEQ ID NO:14.

7. A vector comprising the nucleic acid molecule of claim 1.

8. A vector comprising the nucleic acid molecule of claim 2.

9. A vector comprising the nucleic acid molecule of claim 3.

10. A vector comprising the nucleic acid molecule of claim 4.

11. A vector comprising the nucleic acid molecule of claim 5.

12. A vector comprising the nucleic acid molecule of claim 6.

13. A host cell comprising the vector of claim 7.

14. A host cell comprising the vector of claim 8.

15. A host cell comprising the vector of claim 9.

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16. A host cell comprising the vector of claim 10.

17. A host cell comprising the vector of claim 11.

18. A host cell comprising the vector of claim 12.

19. A process for producing a TP2 polypeptide comprising the steps of:

- (a) expressing a polypeptide encoded by the nucleic acid of claim 1 in a suitable host; and
- (b) isolating the polypeptide.

20. The process of claim 19 wherein the polypeptide is SEQ ID NO:14 or SEQ ID NO:20.

21. The process of claim 19 wherein the polypeptide is amino acids 640-940 of SEQ ID NO:14.

22. A TP2 polypeptide selected from the group consisting of:

- (a) the polypeptide of SEQ ID NO:14;
- (b) the polypeptide that is amino acids 640-940 of SEQ ID NO:14;
- (c) the polypeptide of SEQ ID NO:20; and
- (d) a polypeptide that is at least 90 percent identical to any of the polypeptides of (a)-(c).

23. A TP2 polypeptide that is the polypeptide of SEQ ID NO:14, SEQ ID NO:20, or a biologically active fragment thereof.

24. A TP2 polypeptide selected from the group consisting of: amino acids 1-563 of SEQ ID NO:14; amino

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32. A polypeptide encoded by the nucleic acid
35 molecule of claim 30.